

Manganese carbonate

molecular formula: MnCO_3 molecular weight: 114.95 CAS NO: 598-62-9

一、Physical and chemical properties

Manganese carbonate is presented as a rosy triangular rhombic crystal or amorphous bright white brown powder with a relative density of 3.125, and almost insoluble in water, slightly soluble in carbonic acid and common organic acid, insoluble in alcohol and liquid ammonia, soluble in dilute inorganic acid.

It remains stable in dry air, and is easy to oxidize to manganese sesquioxide when wet, and its color gradually becomes brown and black. When heated, which decomposes and generates carbon dioxide; when heated to boiling with water, which hydrolyzed; when in the boiling potassium hydroxide, manganese oxide gas is formed.

二、Quality index

Parameter and quality index	
Appearance	light reddish brown
Mn content(%)	$\geq 42.5\%$
Sulfate content(%)	$\leq 0.80\%$
Chloride content(%)	$\leq 0.01\%$

三、Function and use

Manganese carbonate is the raw material for manufacturing soft magnetic ferrite of telecommunication equipment, for the synthesis of manganese dioxide, and for the manufacture of other manganese salts. Which be used as an oxidizer for desulfurization, as a pigment for enamel, coatings and varnishes, and as an additive in fertilizers and fodders. It is also used in medicine, welding rod accessories, etc., and can be used as a raw material for the production of ignited metal manganese.

四、Packaging, warehousing and transportation

Manganese carbonate packed in bags lined with polyethylene plastic, each bag weighs 25 kg net. Goods should be stored in a cool, ventilated and dry warehouse. They should be protected from moisture, heat and deterioration.

During transportation, it is necessary to prevent goods from rain and sun exposure, and handle goods gently during loading and unloading to prevent packaging damage.

In case of fire, put out with water, sand and fire extinguisher!



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